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(54) **Polycationic supports for nucleic acid purification, separation and hybridization.**

(57) Described herein is the use of polycationic solid supports in the purification of nucleic acids from solutions containing contaminants. The nucleic acids non-covalently bind to the support without significant binding of contaminants permitting their separation from the contaminants. The bound nucleic acids can be recovered from the support. Also described is the

use of the supports as a means to separate polynucleotides and hybrids thereof with a nucleotide probe from unhybridized probe. Assays for target nucleotide sequences are described which employ this separation procedure.



DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 4)
P,Y	EP-A-0 221 308 (MILES LABORATORIES INC.) * Abstract; example 1; claims 1-8 * ---	1-109	C 07 H 1/06 C 12 Q 1/68 G 01 N 33/543
P,Y	EP-A-0 219 695 (MILES LABORATORIES INC.) * Whole document * ---	1-109	
Y	EP-A-0 102 661 (KATHOLIEKE UNIVERSITEIT, FACULTEIT DER WISKUNDE EN NATUURWETENSCHAPPEN) * Whole document * ---	1-109	
Y	EP-A-0 189 280 (DEKALB-PFIZER GENETICS) * Abstract; claims 1-6 * ---	1-109	
Y	WO-A-8 600 139 (DIAGNOSTIC RESEARCH LTD) * Abstract; page 17 - page 24, line 26; claims 1,13 * ---	1-109	
Y	EP-A-0 125 995 (ADVANCED MAGNETICS INC.) * Whole document * ---	1-109	TECHNICAL FIELDS SEARCHED (Int. Cl.4) C 07 H C 12 Q G 01 N
Y	WO-A-8 605 518 (SUMMERTON et al.) * Abstract; claims * -----	27,28, 30-33, 57-63, 90,91	
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 21-01-1990	Examiner OSBORNE H. H.
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ----- & : member of the same patent family, corresponding document			